Nokia Siemens
Networks

CPE*i* 800/825
Series

User Manual

* Please see the Introduction Section

Contents

AUG 2011

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Introduction

This User Manual is for the Nokia Siemens Networks CPE*i* 800 and CPE*i* 825 models of desktop modems. The specific model numbers and additional details are included in the table below.

Table i-1 Desktop Modem Models - Data Only

Data Only Models
CPE*i* 23800
CPE*i* 25800
CPE*i* 35800

Table i-2 Desktop Modem Models - Data Plus VoIP

Data Plus VoIP (Voice over Internet Protocol) Models
CPE*i* 23825
CPE*i* 25825
CPE*i* 35825

Throughout this manual, references made to VoIP are applicable only to the CPE*i* 825 series of products. The CPE*i* 800 series of products do not include the RJ-11 telephone connector on the back of the device, the telephony LED or any reference to telephony in the Graphical User Interface (GUI).

Chapter 1: CPE*i* 800/825 User Guide

Overview

Thank you for purchasing the Nokia Siemens Networks CPE Indoor CPE*i* 800/825 desktop device. The Desktop CPE*i* 800/825 allows you to connect to the wireless world easily and seamlessly without complicated installation and setup procedures. In addition, it offers you the ability to make Voice over Internet Protocol (VoIP) calls.

The Desktop CPE indoor CPE*i* 800/825 device provides the user:

- Convenience - with easy plug and play functionality. Compact design.
- Control - remote management capability allows easy detection and authentication when the unit is set up.
- VoIP - RJ11 port allows for Voice over IP calls using your CPE*i* 825.

The features and the physical appearance of your Desktop CPE*i* 800/825 device may differ slightly from the illustration.

Figure 1-1: CPE*i* 800/825

CPE*i* 800   CPE*i* 825

For the most recent documentation, visit the Product Documentation page on www.nokiasiemensnetworks.com/devices.

Powerful Features in a Single Unit

The CPE device provides the following features:

- WiMAX Authentication
- WAN DHCP Client
- LAN DHCP Server
- Home Gateway Functions
- Firewall Protection
- Port Forwarding

Front of the CPE

The front of the CPE unit contains LED Link/Activity indicators. The LEDs show the status of the unit and signal strength indicators for easy adjustment during setup.

Table 1-1 LED Indicator Interface

| LED	Status
Signal Strength	Full WiMAX Signal Strength is detected when all WiMAX Signal Strength LEDs are lit. • All WiMAX Signal Strength LEDs are off - very low signal detected. • One to two WiMAX Signal Strength LEDs are lit - low signal detected. • Three to five WiMAX Signal Strength LEDs are lit - high signal detected.
WAN WiMAX	While acquiring access to the WiMAX Network: • All WiMAX Signal Strength LEDs vary between ON, OFF and/or BLINKING status.

⚠ **CAUTION**
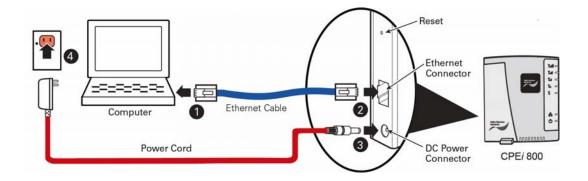
If all five WiMAX Signal Strength LEDs are blinking, then a software upgrade is in progress. Do NOT remove power to the CPE.

Back of the CPE

The back of the CPE unit contains the RESET switch, DC Power Connector, Ethernet connector (RJ-45), Ethernet LED and ATA port (RJ-11).

Figure 1-2: CPE Ports and Connections

CPE*i* 800

CPE*i* 825
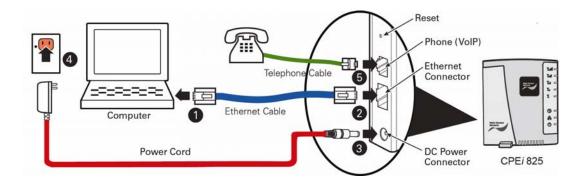
Table 1-2 Port Descriptions

Port	Description
Ethernet	Ethernet Port.
Power	DC Power Connector.
Reset	Hardware Reset Button (A paperclip is recommended for accessing this button).
Phone Line	RJ-11 port for use with VoIP.

Operating Information

Operating temperature for this unit is 0-40°C (32-104°F).

Chapter 2: Installation

Overview

To install the Desktop CPE*i* 800/825 Series, review the following sections:

- Before You Begin
- Easy Setup

Before you Begin

Before you begin installation, check that you have received the following items with your Desktop CPE*i* 800/825:

Table 2-1 In the box with your CPE, you should have

Item	Description
AC Power Adapter	Power adapter cord connects the Desktop CPE to an AC electrical outlet.
Ethernet Cable	The Ethernet cable connects the Internet port on your Desktop CPE to your PC or laptop computer.
Desktop CPE*i* 800/825 Quick Start Guide	Desktop CPE*i* 800/825 Quick Start Guide.
Desktop CPE*i* 800/825 Regulatory Guide	Desktop CPE*i* 800/825 Regulatory Guide.

In addition, you need:

- A computer
- An RJ-11 telephone cable (if applicable)

Easy Setup

The CPE is easily set up in your home. Basic installation equipment needed are the power adapter and cord, Ethernet cable, a PC or laptop computer and the CPE device. If you want to use the VoIP functionality, you need an RJ-11 phone cable and a telephone.

Perform the following tasks before attaching the power cord or powering up the unit:

- Stand the CPE on a flat surface.
- Plug the power adapter into the power connector on the back of the unit.
- Plug the AC power cord into an AC outlet.
- Plug one end of the Ethernet cable into the Ethernet connector on the back of the unit.
- Plug the other end of the Ethernet cable into the Ethernet connector of your computer.
- To use VoIP functionality of the phone, plug one end of the phone line into the activated phone connector on the back of the unit. Phone line activation is dependent upon your service contract.
- Plug the other end of the phone line into the phone line connector of your telephone.

Advanced Setup

The CPE can also be used to connect to a multi-port switch (hub) – purchased separately from the CPE. Connecting the CPE device to a hub allows you to connect more than one computer to your CPE device.

Procedure to Log into the CPE

Before you Begin Configuration

Some settings on your computer need to be verified or changed to ensure that your computer configuration can support the Desktop CPE.

Verify that the IP addresses and DNS settings are automatically generated in the Local Area connection of your Internet Protocol (TCP/IP) properties. Refer to the chapter titled "Configuring TCP/IP" for additional information.

Logging in to the CPE

Use the following procedure to log into the Desktop CPE:

1. On a computer that is connected to the Desktop CPE, open a web browser.
2. In the Address or Location field, type **http://mywimax.** and press **ENTER** to display the login screen.
    Include the period (.) after http://mywimax. in order to access the login screen.

⚠ NOTE

Alternatively, you may enter the IP address: http://192.168.15.1 into the Address field in order to gain access to your CPE. If you cannot access the CPE, refer to the chapter titled: Configuring TCP/IP for more information.

3. The Welcome to Nokia Siemens Networks WiMAX CPE screen is displayed and prompts you for a password.

Figure 2-1: Login Screen

4. In the **password** field, type the password (default is **nsn**).
5. Click **Login**.
6. First time users see a pop-up box that states: "The Wizard application will guide you through for the first time configuration". Click **OK** to continue.
7. Click the **OK** to launch the wizard application.

⚠ NOTE

In some earlier versions of software, the default password is motorola.

Setup Wizard and Authentication

Step 1 - Change Password

After you have launched the setup wizard, you are prompted to change your password. Nokia Siemens Networks recommends using a password to protect your home network and CPE device. Passwords are case sensitive.

To change your password:

- Ensure the "Enable Login Password Protection" box is checked.
- Enter a New Login Password in the box. Passwords can be no more than 20 characters in length.
- Re-type your new password in the Confirm New Login Password box.
- Click **Next.**

If you forget your password, you can reset it back to the default (nsn) password. To reset the password, press and hold the reset button on the back of your CPE for 7 or more seconds. Before resetting the CPE, ensure that the power is ON.

⚠ NOTE

In some earlier versions of software, the default password is motorola.

Step 2 - Device Time

This screen allows you to set the time zone and to enable Daylight Savings Time (when applicable) for your location.

- Select the appropriate time zone for your location from the drop-down box.
- Check "Auto Adjust for Daylight Savings Time" if you live in a region that observes Daylight Savings Time. This box is checked by default.
- Click **Next**.

Step 3 - WiMAX Security

The WiMAX Security tab contains your authentication method. Check with your service provider to determine if they require a user name and password for authentication purposes.

- If the Authentication Method is EAP-TLS, a User Name and Password is not required. Enter the Realm information supplied by your service provider. Click **Next**.
- If the Authentication Method is EAP-TTLS/MS-CHAPv2, enter User Name and Password, and Realm information supplied by your Service Provider. When you have entered the User Name/Password/Realm information, click **Next**.
- If you are unsure of the Authentication Method, select EAP-TLS (which is the default) and click **Next**.

Step 4 – Account

The Account tab allows you to manage Voice over IP (VoIP) related services. Please consult with your telephony service provider for these settings.

Click **Apply** when finished.

Congratulations! You have now completed the setup of your WiMAX connection.

Click **OK** on the Congratulations! dialog box.

A status screen appears that shows Network status and telephony status. The Network Status screen provides any status associated with your WiMAX Wireless Broadband connection. The Telephony Status screen provides status of your telephony service.

- **Restart** is used to restart the device. The restart button is available on every screen.
- **Wizard** starts the set-up wizard over again.
- **Refresh** refreshes the screen with the current status.
- **Auto Refresh** allows the web browser to automatically refresh at the interval determined in the Control Panel menu.

Figure 2-2: Status Screen

Restart Button

Figure 2-3: Restart Button

Restart   Wizard   Refresh   Auto Refresh

Chapter 3: Basic Configuration

Before you Begin

When the CPE setup has been completed, you can log in to your CPE from any computer on your home network. To log in, type the device name in the address bar on your computer. The default device name is mywimax.
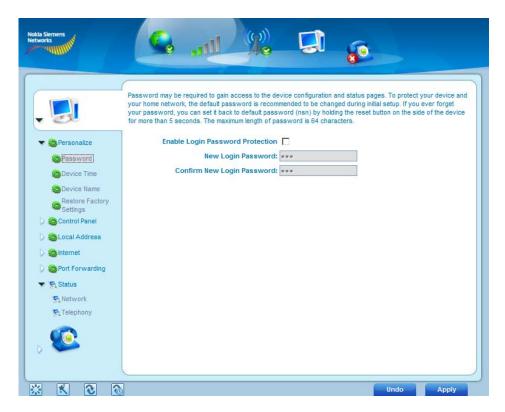
This section describes the PERSONALIZE, INTERNET and STATUS Menus that are available.

Personalize Menu

The Personalize menu provides the following tabs:

- Password
- Device Time
- Device Name
- Restore Factory Settings

Figure 3-1: Personalize Menu

To Access the Personalize menu, click the Computer icon, then click Personalize.

Password Tab

The password tab allows you to enable/disable password protection. You can also change your password here. Click **Apply** when finished.

Table 3-1 Password Tab

Field or Button	Description
Enable Login Password Protection	Checking this box requires login password protection.
New Login Password	Enter your new password here. Maximum 20 characters. Passwords are case sensitive.
Confirm New Login Password	Re-enter your new password here, exactly as entered in the previous step.

Device Time Tab

The Device Time tab allows you to establish the time zone for your location. It also allows you to automatically adjust for Daylight Savings Time if necessary. Click **Apply** when finished.

Table 3-2 Device Time Tab

Field or Button	Description
Current Local Time	Current Local Time
Time Zone	Select your local time zone from the dropdown box.
Auto Adjust for Daylight Saving Time	Check this box if your location observes Daylight Savings Time (Default is checked).

Device Name Tab

The Device Name tab allows you to rename your CPE device. The Device Name is the name you enter on an internet browser address bar to access your CPE device. Click **Apply** when finished.

Table 3-3 Device Name Tab

Field or Button	Description
New Device Name	Enter the new name for the CPE device. Maximum 20 characters.

Restore Factory Settings Tab

The Restore Factory Settings Tab resets your CPE to the manufacturer default settings. Click **Apply** if you are sure you want to reset factory settings.
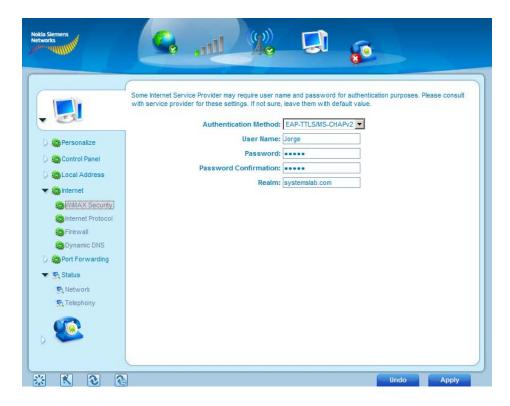
Table 3-4 Restore Factory Settings Tab

Field or Button	Description
Restore Factory Settings	Checking this box restores the CPE to factory default settings. The device restarts when you click **Apply**.

Internet Menu

The Internet menu provides the following tabs:

- WiMAX Security
- Internet Protocol
- Firewall
- Dynamic DNS

Figure 3-2: Internet Menu

To access the Internet menu, click the Computer icon, then click Internet.

WiMAX Security Tab

The WiMAX Security tab contains your authentication method. Check with your service provider to determine if user name and password are required for authentication purposes.

Table 3-5 WiMAX Security Tab

Field or Button	Description
Authentication Method	Drop down box allows you to select either EAP-TLS (default) or EAP-TTLS/MSCHAPv2.
User Name (EAP-TTLS/MS-CHAPv2 only)	Enter the User Name supplied by your service provider.
Password (EAP-TTLS/MS-CHAPv2 only)	Enter the Password supplied by your service provider.
Realm	Supplied by your service provider.

If your authentication method is EAP-TLS, a User Name and Password is not required. Click **Apply**.

Internet Protocol Tab

Check with your service provider for these settings. If you are unsure of the settings, leave the default values set. Click **Apply**.

If your service provider has instructed you to change any of these settings, click **Apply** when finished.

Firewall Tab

A firewall helps to protect your home network from unauthorized access. It also helps to manage authorized access from the internet to your CPE.

Table 3-6 Firewall Tab

Field or Button	Description
Enable Firewall	Check this box to enable the firewall for your home network.
Enable Web Login from Internet	(Grayed out if Enable Firewall is not selected). Checking this box enables you to access your CPE device from a network other than your own.
Web Login Port from Internet	Choose a port number to connect to when logging in from a network other than your own. The default is 8080.
Enable ping from Internet	Enables the CPE to respond to a ping from the Internet. This option is enabled to allow testing only. Do not leave this enabled.

Click **Apply** when you are finished.

Dynamic DNS Tab

Dynamic Domain Name Service (DDNS) allows a user with a non-static IP address to keep their domain name associated with an ever changing IP address. As an example, DDNS is used when you are hosting your own website.

Table 3-7 Dynamic DNS Tab

| Field or Button	Description
Enable DDNS	Check this box to Enable DDNS (default is unchecked).
DDNS Service Provider	Select DDNS Service Provider that you belong to from the drop-down box.
DDNS User Name	Only valid if Enable DDNS is checked. Enter your DDNS account user name.
DDNS Password	Only valid if Enable DDNS is checked. Enter your DDNS account password.
DDNS Host Name	Only valid if Enable DDNS is checked. Enter the DDNS Host Name. This is assigned by the DDNS service.
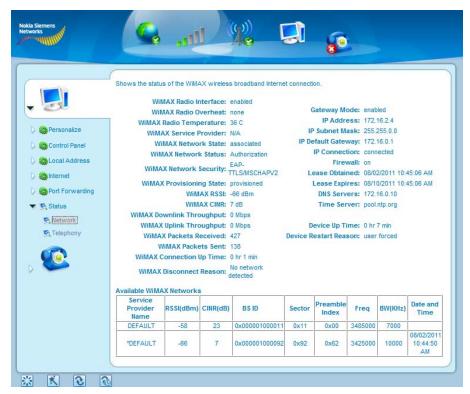
Click **Apply** when you are finished.

Status Menu

The Status menu provides the following tabs:

- Network
- Telephony

Figure 3-3: Status Menu

Network Tab

The Network tab provides any status associated with your WiMAX Wireless Broadband connection.

Telephony Tab (CPE*i* 825 Models only)

The Telephony tab provides any status associated with your telephony connection.

Telephony Menu (CPE*i* 825 Models only)

The telephony menu allows you to manage your Voice over Internet Protocol (VoIP) services.

⚠ NOTE

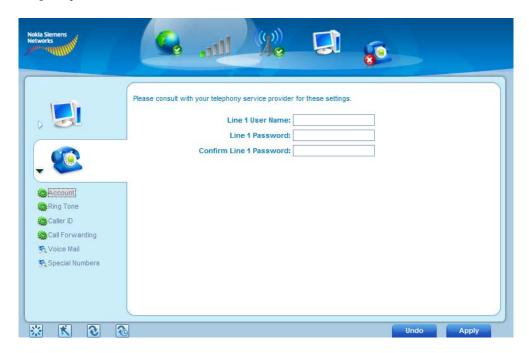Contact your service provider to obtain VoIP service.

The Telephony menu provides the following tabs:

- Account
- Ring Tone
- Caller ID

- Call Forwarding
- Voice Mail
- Special Numbers

Figure 3-4: Telephony Menu

Account Tab

Consult your service provider for these settings.

Table 3-8 Account Tab

Field or Button	Description
User Name	If Line is an active VoIP, enter the User Name as provided by your service provider.
Password	Enter the Line password as provided by your service provider. Passwords are case sensitive.
Confirm Line Password	Re-enter your Line password exactly as entered in the field from the previous step.

Click **Apply** when you are finished.

Ring Tone Tab

The Ring Tone tab allows you to customize ring tones for your telephone(s).

⚠ NOTE

You need a phone connected to your CPE to hear ring tones.

Table 3-9 Ring Tone Tab

Field or Button	Description
Default Line Ring Type	Use the drop-down box to select a ring tone for Line. The default is ring tone R0.
Test	Click to hear how the selected ring tone sounds.

Click **Apply** when you are finished.

Caller ID Tab

The Caller ID tab allows you to manage the Caller ID functions for your telephone(s).

Table 3-10 Caller ID Tab

Field or Button	Description
Enable Line Anonymous Incoming Call Rejection	If Line is your active telephone port, check this box to reject telephone calls from anonymous incoming callers. The default is checked.
Enable Line Permanent Anonymous Outgoing Call	If Line is your active telephone port, check this box to permanently block your telephone number from appearing on others' Caller ID. The default is unchecked.

Click **Apply** when you are finished.

Call Forwarding Tab

The Call Forwarding tab allows you to manage the call forwarding features for your telephone(s).

Table 3-11 Call Forwarding Tab

Field or Button	Description
Enable Line Basic Forwarding	Check this box to enable basic call forwarding on Line. The default is unchecked.
Line Basic Forwarding to Number	If "Enable Line Basic Forwarding" is checked, enter the telephone number you would like to forward calls to.

(Continue)

Table 3-11 Call Forwarding Tab (Continued)

Field or Button	Description
Enable Line Forwarding on No Answer	Check this box to forward calls received on Line if there is no answer. This function is not available if "Enable Line Basic Forwarding" is checked.
Line No Answer Forwarding to Number	If "Line No Answer Forwarding to Number" is checked, enter the telephone number you would like to forward calls to when there is no answer on Line. This function is not available if "Enable Line Basic Forwarding" is checked.
Line No Answer Forwarding Ring Count	Enter the number of rings allowed before the call forwards to the number identified above. The default is six rings.
Enable Line Forwarding on Busy	Check this box to forward calls received while Line is in use.
Line Busy Forwarding To Number	If "Enable Line Forwarding on Busy" is checked, enter the telephone number you would like calls forwarded to when Line is in use.

Click **Apply** when you are finished.

Voice Mail Tab

The voice mail tab allows you to see the status of your voice mail. Contact your service provider to activate the voice mail feature if it is not already active.

Table 3-12 Voice Mail Tab

Field or Button	Description
Line Server Based Voice Mail Status	Shows the status of Line voice mail as either enabled or disabled.
Line Number of New Voice Mails	Shows the number of new, unheard voice mails on Line.
Line Number of Old Voice Mails	Shows the number of previously heard voice mails on Line.

Click **Apply** when you are finished.

Special Number Tab

The Special Number tab provides a list of special dialing numbers for your VoIP Phone Service.

Table 3-13 Special Number Tab

Field or Button	Description
Service Provider Contact Number	Use this number to contact customer service for your service provider.

(Continue)

Table 3-13 Special Number Tab (Continued)

Field or Button	Description
Emergency Number	Dial this number to reach local emergency services.
Redial	Dial this number to redial the last number called.
Blind Call transfer	Dial this number to transfer a call directly to a third party.
Consultation Call Transfer	Dial this number to speak with the third party before you transfer the call to them.
Call Hold	Dial this number to place your current call on hold.
Automatic Recall Activate	Dial this number to call back the number of the last incoming call.
Automatic Recall Deactivate	Dial this number to automatically call back the last number dialed when that number becomes available.
Call Forwarding Activate	Dial this number to forward your calls to a different number.
Call Forwarding Deactivate	Dial this number to deactivate call forwarding.
Call Forwarding Busy Activate	Dial this number to forward calls to a different number when the line is busy.
Call Forwarding Busy Deactivate	Dial this number to de-activate calls from forwarding to a different number when the line is busy.
Call Forwarding Busy Change Number	Dial this number to change the phone number to which calls will be forwarded when the line is busy.
Call Forwarding No Answer Activate	Dial this number to forward calls to a different number when there is no answer on Line.
Call Forwarding No Answer Deactivate	Dial this number to de-activate calls from forwarding to a different number when there is no answer on Line.
Call Forwarding No Answer Change Number	Dial this number to change the phone number to which calls will be forwarded when there is no answer on Line.
Automatic Callback Activate	Dial this number to hear the most recent call you missed and to return the call. If the number is busy, you can hang up. When the number is available, your phone will ring. Pick up your phone and the call will be connected.
Automatic Callback Deactivate	Dial this number to de-activate automatic callback.
Do Not Disturb Activate	Dial this number to have calls automatically routed to voice mail.
Do Not Disturb Deactivate	Dial this number to cancel automatic call routing to voice mail.
Calling Number Delivery Blocking	Dial this number to block your number from appearing on the Caller ID of the people you call. Your calls may appear as "Private" or "Anonymous".
Line Blocking Deactivate	Dial this number to unblock your telephone number from appearing on Caller ID.

(Continue)

Table 3-13 Special Number Tab (Continued)

Field or Button	Description
Call Waiting Toggle	Dial this number to toggle between call waiting ON and call waiting OFF.
Anonymous Call Rejection Activate	Dial this number to have anonymous calls rejected.
Anonymous Call Rejection Deactivate	Dial this number to allow anonymous calls to go through.

Chapter 4: Advanced Configuration

The Advanced Configuration section describes the Port Forwarding, Local Address, and Control Panel menus.

Port Forwarding Menu

Port forwarding enables you to direct incoming traffic to specific LAN hosts (computers on your network) based on the protocol and port number. It is used to play Internet games or provide local services (such as web hosting) for a LAN group.

To access the Port Forwarding menu, click the Computer icon, then click Port Forwarding.

The Port Forwarding menu provides the following tabs:

• Basic

• Forwarding

Figure 4-1: Port Forwarding
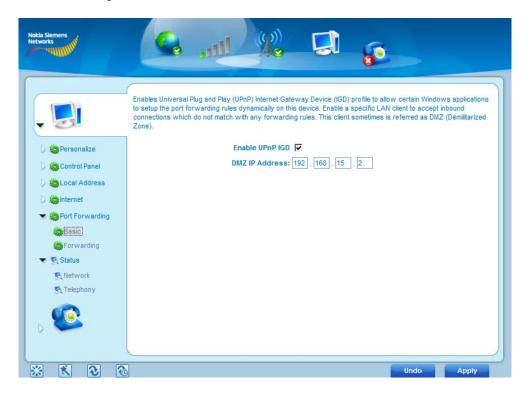
Table 4-1 Port Forwarding Menu

Field or Button	Description
Enable UPnP IGD	Enables the Universal Plug and Play (UPnP) Internet Gateway Device (IGD) profile to allow certain Windows applications to set up the port forwarding rule dynamically when NAT is enabled on this device.
DMZ (DeMilitarized Zone) IP Address	Enter the DMZ IP Address.

Click **Apply** when you are finished.

Forwarding Tab

Click **ADD** to create additional Port Forwarding rules.

Table 4-2 Forwarding Tab

Field or Button	Description
Select	Select a box when you want to delete the specific row.
Protocol	Select TCP (Transmission Control Protocol) or UDP (User Datagram Protocol).
WAN Port Start	Enter the beginning port range for external network access.
WAN Port End	Enter the ending port range for external network access.
LAN IP Address	Enter the IP address to host the service.
LAN Port Start	Enter the beginning port range for internal network access.
LAN Port End	Enter the ending port range for internal network access.
Enabled	Check to enable specific port forwarding.

Click **Apply** when you are finished.
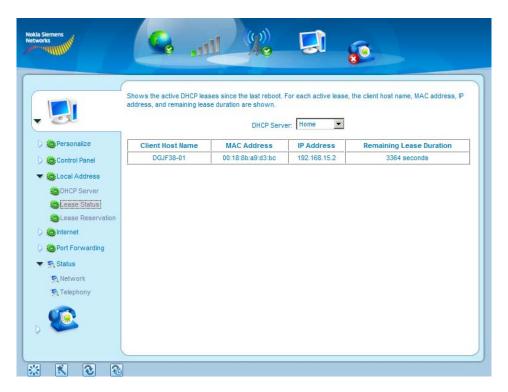
Local Address Menu

The Local Address menu allows you to configure your Local Area Network (LAN) connections.

The Local Address menu provides the following tabs:

- DHCP Server
- Lease Status
- Lease Reservation

To access the Local Address menu, click the Computer icon, then click Local Address.

Figure 4-2: Local Address Menu

DHCP Server Tab

The DHCP Server tab enables Dynamic Host Configuration Protocol (DHCP) server functionality on the LAN, allowing the router to dynamically assign lease IP addresses to clients that connect to it from the local network.

Table 4-3 DHCP Server Tab

Field or Button	Description
Enable DHCP Server	If selected, the DHCP server on the gateway assigns IP addresses to the computers and other hosts on your network if they have DHCP enabled. By default, the gateway server is enabled. If there is another DHCP server running on your network (on another router), disable one of the DHCP servers.
DHCP Server IP Address	Enter the default port forwarding LAN Client IP Address.
DHCP Starting IP Address	Sets the first IP address assigned by the DHCP server, in dotted-decimal format. It must be greater than the IP address value of the gateway. For example, if the IP address of the gateway is 192.168.15.1(default), the starting IP address must be 192.168.15.2 (or higher).

(Continue)

Table 4-3 DHCP Server Tab (Continued)

Field or Button	Description
DHCP Ending IP Address	Sets the final IP address assigned by the DHCP server. If the DHCP server runs out of DHCP addresses, users cannot access network resources. If this happens, increase the Ending IP or reduce the Lease Time.
DHCP Lease Time	Sets the time, in seconds, that a network computer remains connected to the gateway using its current assigned IP address. At the end of this time, the DHCP server renews the lease or assigns the computer a new IP address. The default is 3600 seconds (one hour). The maximum is 999999 seconds (about 278 hours).

Click **Apply** when you are finished.

Lease Status Tab

The Lease Status tab in the Local Address menu displays the active DHCP leases since the last reboot.

Table 4-4 Lease Status Tab

Field or Button	Description
Client Host Name	Displays the client host name. The Name field is limited to 20 characters (only 5 appear in display).
MAC Address	Media Access Control (MAC) address.
IP Address	Shows the IP Address for each active lease.
Remaining Lease Duration	Shows the amount of time, in seconds, remaining in the lease.

Click **Apply** when you are finished.

Lease Reservation Tab

This tab allows you to manage the lease reservation so that the same client receives the same IP address each time.

Table 4-5 Lease Reservation Tab

Field or Button	Description
Select	Select this box if you want to delete an established lease reservation. Click **Delete** when you have selected the exception to be deleted.
Client Host Name	Enter the client host name. The Name field is limited to 20 characters (only 5 appear in display).

(Continue)

Table 4-5 Lease Reservation Tab (Continued)

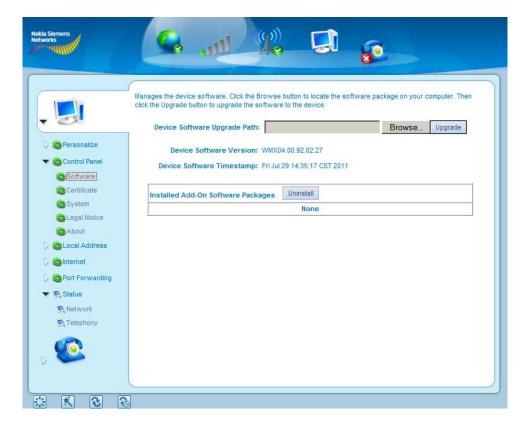| Field or Button	Description
MAC Address	Media Access Control (MAC) address. Enter the MAC address of the device.
IP Address	Enter the IP address that you want assigned to the MAC Address.
Enabled	Clicking this box enables the lease reservation.

Click **Apply** when you are finished.

Control Panel

The Control Panel sections allow you to view/update your software information.

The Control menu provides the following tabs:

- Software
- Certificate
- System
- About

Figure 4-3: Control Panel Menu

Software Tab

The Software tab manages the software on your CPE device. It is also where you can upgrade device software.

Use the **BROWSE** button to browse your computer for additional software packages. When you have located the software package/update you would like to add to your device, click **Upgrade**.

You should see the available software updates in the "Available Software Packages" table. If you cannot see the list, click **View**.

Select the software you would like to install, click **Install**.

If you would like to remove software, select the software package you would like to remove, click **Uninstall**.

Certificate Tab

The Certificate tab is where you manage the certificates that are stored on the device.

Use the **BROWSE** button to locate the certificate file on your computer, and then click **IMPORT**.

Use the **REMOVE** button to remove any selected certificate(s).

System Tab

The system tab allows you to manage additional features of your CPE device.

Table 4-6 System Tab

Field or Button	Description
Language Used in User Interface	Select the desired language for the user interface. The default language is English.
Background	Select the desired background color for the user interface.
Enable WiMAX Radio Interface	Check this box to enable the WiMAX Radio Interface.
Auto Refresh Interval	Enter, in seconds, the interval for status Auto Refresh. Valid range is 2 seconds - 9999 seconds. The default value is 3 seconds.

About Tab

The About Tab displays basic properties of your CPE device such as: Part Number, Model ID, Hardware Version, Serial Number, WiMAX MAC Address and the LAN MAC Address.

Chapter 5: Configuring TCP/IP

This section contains two examples of configuring TCP/IP in a Windows environment.

Most computers already have the TCP/IP configuration enabled. Use the following procedures to verify the configuration is set up. Configure all client computers on your network for TCP/IP (the protocol that controls communication among computers).

Two examples are provided in this document:

- Configuring TCP/IP in Windows 2000
- Configuring TCP/IP in Windows XP

⚠ NOTE

Follow the instructions in your computer user manual for other Operating Systems.

Configuring TCP/IP in Windows 2000
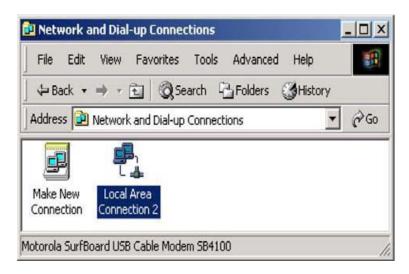
1. On the Windows desktop, click **Start**.
2. Select **Settings** and then **Control Panel** from the pop-up menus to display the Control Panel window:

Figure 5-1: Windows Control Panel

3. Double-lick the **Network and Dial-up Connections** icon to display the Network and Dial-up Connections window:
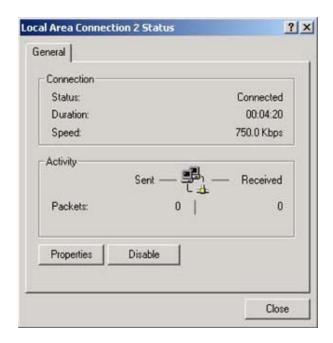
Figure 5-2: Network and Dial-up Connections

In the steps that follow, a connection number like 1, 2, 3, etc., is a reference that is displayed on computers with multiple network interfaces. Computers with only one network interface may only see the label: Local Area Connection.

4. Click **Local Area Connection** number. The value of number varies from system to system. The Local Area Connection number Status window is displayed:

Figure 5-3: Local Area Connection
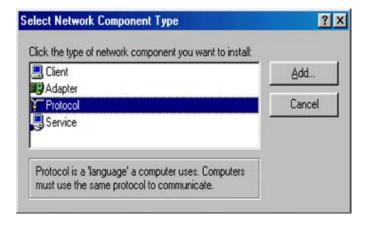
5.   Click **Properties**. Information like the following window is displayed:

Figure 5-4: Properties

6.   If Internet Protocol (TCP/IP) is in the list of components, TCP/IP is installed. You can skip to Step 10.
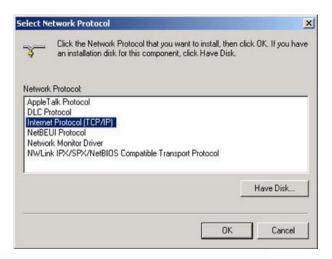
Figure 5-5: Select Network Connection Type

If Internet Protocol (TCP/IP) is not in the list, click **Install**. The Select Network Compoennt Type window is displayed.

7.   Click **Protocol** on the Select Network Component type window and click **Add**. The Select Network Protocol window is displayed:

Figure 5-6: Select Network Protocol

![NOTE]
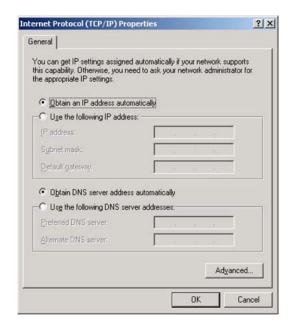
You might have to use the scroll bar to locate the Internet Protocol (TCP/IP) setting.

8.   Click **Internet Protocol (TCP/IP)**.
9.   Click **OK**. The local Area Connection Number Properties window is re-displayed.
10. Be sure the box next to Internet Protocol (TCP/IP) is checked.
11. Click **Properties**. The Internet Protocol (TCP/IP) Properties window is displayed.

Figure 5-7: Internet Protocol (TCP/IP) Properties

12. Be sure Obtain IP address automatically and Obtain DNS server address automatically are selected.
13. Click **OK** to accept the TCP/IP settings.
14. Click **Close** to close the Local Area Connection number Properties window.
15. Click **OK**.
16. If prompted to restart the computer, click **OK** again.

Configuring TCP/IP in Windows XP

1. On the Windows desktop, click **Start** to display the Start window:

Figure 5-8: Windows XP Start Window

2. Click **Control Panel** to display the Control Panel window. The display varies, depending on your Windows XP view options. If the display is Category view as shown in Figure 5-9, continue with Step 3. Otherwise, skip to Step 5.
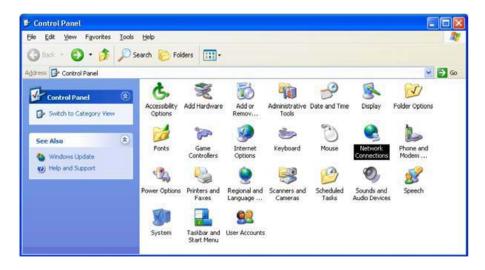
Figure 5-9: Control Panel

3. Click **Network and Internet Connections** to display the Network and Internet Connections window:
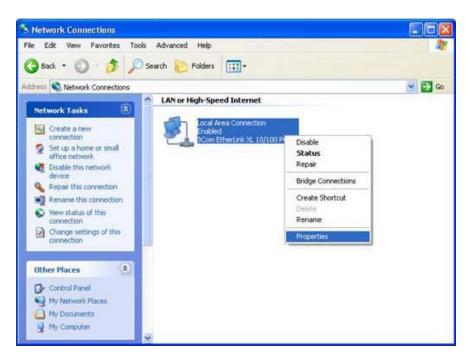
Figure 5-10: Network and Internet Connections

4. Click **Network Connections**. Skip to Step 6.
5. If a classic view like Figure 5-11 is displayed, double-click **Network Connections** to display the LAN or High-speed Internet connections.

Figure 5-11: Control Panel Classic View

6. Right-click the **Local Area Connection**. If more than one connection is displayed, select the one for your network interface.
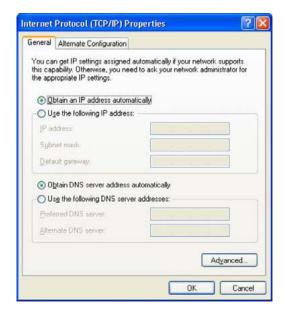
Figure 5-12: Network Connections

7. Select **Properties** from the pop-up menu to display the Local Area Connection Properties window:

Figure 5-13: Local Area Connection Properties

8. On the Local Area Connection Properties window, select **Internet Protocol (TCP/IP)** if it is not selected.
9. Click **Properties** to display the Internet Protocol (TCP/IP) Properties window.

Figure 5-14: Internet Protocol (TCP/IP) Properties

10. Be sure Obtain IP address automatically and Obtain DNS server address automatically are selected.
11. Click **OK** to close the TCP/IP Properties window.

Chapter6: Troubleshooting

Power

- Verify the AC power adapter is properly plugged into the electrical outlet and into the Desktop CPE.
- Plug a lamp into the outlet to ensure the outlet is receiving power.

A Computer Cannot Log On to the CPE

Disconnect and reconnect the Ethernet cable to the CPE unit and the computer.

Cannot Connect to the Internet

- Check the Desktop CPE connection status from the web interface, refer to the Connection Status section to verify the connection status.
- If the Desktop CPE connection is down, and the gateway has not received an IP for 5 minutes to 10 minutes:
  – Re-Run the Setup Wizard.
  – If the Setup Wizard does not help, then reset the Desktop CPE using the reset button.

Additional Troubleshooting Help

Contact your service provider for additional help.

Chapter 7: Important Safety and Legal Information

Your Nokia Siemens Networks WiMAX Wireless Broadband Gateway is designed and tested to comply with a number of national and international standards and guidelines regarding human exposure to RF electromagnetic energy. Please see the Regulatory Guide included in the device packaging.

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